

5        a primary station communicating with a plurality of stations, the primary station  
including a radio having a receiver and a transmitter wherein:

(i)      said transmitter transmits synchronization information including an  
assignment of n transmission fixed periodic time slots, where n is an integer greater than 1,  
and n reception fixed periodic time slots on a selected frequency;

10       (ii)     said radio transceives [n concurrent] a duplex telephonic  
[communications] communication with the plurality of stations on the selected frequency  
wherein:

C1  
(a)     said transmitter transmits [a signal carrying] TX speech  
information to each of the plurality of stations [of n duplex telephonic communications,  
each] in a respective one of the n transmission time slots on the selected frequency; and

(b)     said receiver receives [signals carrying said] RX speech  
information from each of the plurality of stations [of each of said n duplex telephonic  
communications, each] in one of the n reception time slots on the selected frequency; and

the plurality of stations including:

20       a base station receiving from the primary station the TX speech information  
originated from a secondary station in said respective transmission time slot and transmitting  
the RX speech information in said respective reception time slot; and

[associated with each one of said n concurrent duplex communications,] a secondary  
station having:

- 25                   (i)     a radio receiver which receives the synchronization information from  
the primary station and identifies the assignment of time slots and which receives from the  
primary station the TX speech information originating from the base station [of that said one  
duplex telephonic communication] in said respective transmission time slot [on the selected  
frequency]; and
- 30                   (ii)    a radio transmitter which transmits the [signal carrying corresponding]  
RX speech information [of that said one duplex telephonic communication] in said  
respective reception time slot [on the selected frequency].
- 

I  
CJ  
13. (Amended) A telecommunication system according to claim 11 [for  
conducting two concurrent duplex telephonic communications] wherein said primary station  
radio transmits an assignment of two transmission and two reception time slots.

CJ  
14. (Amended) A telecommunication system according to claim 11 wherein the  
[primary station is one of a plurality of subscriber units which telecommunicate with a base  
station and wherein at least one of said] secondary station [stations] is positioned outside  
[the] an operating range of said base station at a remote location whereat direct  
5                  communication with said base station can not be made.

Sub. D2  
15. (Amended) A telecommunication station for communicating with a base  
station and a secondary station [conducting a plurality of concurrent duplex communications

which comprise transmitted (TX) and received (RX) information] using wireless transmissions [between the station and one or more secondary stations over one of a plurality of available frequencies], the station comprising:

a transmitter which:

(i) transmits synchronization information including the assignment of  $2n$  fixed periodic time slots, where  $n$  is an integer greater than 1, on a selected frequency,  $n$  fixed periodic transmit time slots for transmission from said telecommunication station and  $n$  fixed periodic reception time slots for reception by said telecommunication station; and

(ii) transmits [a signal carrying the] TX information to the base station and the secondary station [of  $n$  duplex communications] on the selected frequency[, each] in respective ones [one] of said  $n$  assigned transmit slots; and

a receiver which receives [signals carrying the] RX information from the base station and the secondary station [of said  $n$  duplex communications] on the selected frequency[, each] in respective ones [one] of said  $n$  assigned reception [slot] slots.

16. (Amended) A telecommunication system comprising the telecommunication station of claim 15 and [at least one] a secondary station which includes:

(i) a secondary station receiver which receives the synchronization information from said telecommunication station, identifies the assignment of time slots on said selected frequency, and receives the TX information [of  $m$ , where  $m$  is an integer greater than 1 and

less than or equal to n, of said duplex telephonic communications] on the selected frequency in a respective one [m] of said assigned transmit slots; and

(ii) a secondary station transmitter which transmits a signal carrying the corresponding RX information of the m duplex telephonic communications on the selected frequency in m of said assigned reception slots.

*C 10*

17. (Amended) A telecommunication station according to claim 15 wherein the second station is a subscriber unit [which telecommunicates with a base station and also telecommunicates with at least one secondary station] which is positioned outside [the operating] a communicating range of said base station at a remote location whereat direct communication with said base station can not be made.

*Sub Q3*

*C 3*

5

19. (Amended) A telecommunication station for communicating with a base station and a secondary station [conducting a plurality of concurrent duplex communications which comprise transmitted (TX) and received (RX) information] using wireless transmissions [between the station and one or more secondary stations over one of a plurality of available frequencies], the station comprising:

a transmitter which:

(i) transmits synchronization information including the assignment of fixed periodic time slots on a selected frequency, at least two fixed periodic transmit time slots for

transmission from said telecommunication station and at least two fixed periodic reception  
10 time slots for reception by said telecommunication station; and

(ii) transmits a signal carrying [the] TX information transmitted from the  
base station [of a first duplex communication] on the selected frequency in a first assigned  
transmit slot and carrying [the] TX information transmitted from the second station [of a  
second duplex communication] on the selected frequency in a second assigned transmit slot;

15 and

a receiver which:

(i) receives [a signal carrying] the RX information [of said first duplex  
communication] transmitted from a [secondary] base station on the selected frequency in a  
first assigned reception slot; and

20 (ii) receives [a signal carrying] the RX information [of said second duplex  
communication] transmitted from a secondary station on the selected frequency in a second  
assigned reception slot.

20. (Amended) A telecommunication station according to claim 19 wherein the  
[station is a subscriber unit which telecommunicates with a base station and also  
telecommunicates with at least one] secondary station [which] is positioned outside [the  
operating] a communicating range of said base station at a remote location whereat direct  
5 communication with said base station can not be made.

Please add the following new claims:

*TJ*  
--22. A telecommunication system according to claim 11 wherein the secondary station is one of a plurality of secondary stations and the primary station communicates between each of the plurality of secondary stations and the base station using a plurality of available frequencies including the selected frequency.

*?*  
23. A telecommunication system according to claim 22 wherein each available frequency has a same time slot format and time synchronization as the selected frequency.

*C4*  
24. A telecommunication system according to claim 11 wherein the primary station is transparent to the base station and the secondary station.

*Sub-D4*  
25. A telecommunication system according to claim 11 wherein the primary station cleans received RX information prior to transmission as TX information.

*TJ*  
26. A telecommunication station according to claim 15 wherein the secondary station is one of a plurality of secondary stations and the telecommunication station communicates between each of the plurality of secondary stations and the base station using a plurality of available frequencies including the selected frequency.

I  
Cont

27. A telecommunication station according to claim 26 wherein each available frequency has a same time slot format and time synchronization as the selected frequency.

28. A telecommunication station according to claim 15 wherein the telecommunication station is transparent to the base station and the secondary station.

*Sub. D5* 29. A telecommunication station according to claim 15 wherein the primary station cleans received RX information prior to transmission as TX information.

*CH* 30. A telecommunication station according to claim 19 wherein:

the secondary station is one of a plurality of secondary stations and the telecommunication station communicates between each of the plurality of secondary stations and the base station using a plurality of available frequencies including the selected frequency; and

each available frequency has a same time slot and time synchronization as the selected frequency.

*Sub. D6* 31. A telecommunication station according to claim 19 wherein the primary station is transparent to the base station and the secondary station.--